- 1. (original): A method of dyeing or printing cellulose-containing fibre material using a disperse dye, which comprises treating the fibre material with an aqueous composition comprising a water-soluble or water-dispersible polyester resin and a water-soluble or water-dispersible acrylate binder.
- 2. (original): A method according to claim 1, wherein the disperse dye corresponds to formula

$$R_{1} = N = N - NR_{6}R_{7}$$

$$R_{3} = R_{5}$$

$$R_{5} = NR_{6}R_{7}$$

$$R_{1} = NR_{6}R_{7}$$

$$R_{2} = NR_{6}R_{7}$$

$$R_{3} = R_{5}$$

$$R_{4} = NR_{6}R_{7}$$

$$R_{5} = NR_{6}R_{7}$$

wherein

R₁ is halogen, nitro or cyano,

R₂ is hydrogen, halogen, nitro or cyano,

R₃ is hydrogen, halogen or cyano,

R₄ is hydrogen, halogen, C₁-C₄alkyl or C₁-C₄alkoxy,

R₅ is hydrogen, halogen or C₂-C₄alkanoylamino and

 R_6 and R_7 are each independently of the other hydrogen, allyl, or C_1 - C_4 alkyl unsubstituted or substituted by hydroxy, cyano, C_1 - C_4 alkoxy, C_1 - C_4 alkoxy, C_1 - C_4 alkoxy, C_2 - C_4 alkoxy, C_2 - C_4 alkoxy, C_1 - C_4 alkoxycarbonyl, phenyl or by phenoxy,

wherein

 R_8 is hydrogen, phenyl or phenylsulfonyl, the benzene ring in phenyl and phenylsulfonyl being unsubstituted or substituted by C_1 - C_4 alkyl, sulfo or by C_1 - C_4 alkylsulfonyloxy,

R₉ is unsubstituted or C₁-C₄alkyl-substituted amino or is hydroxy,

R₁₀ is hydrogen or C₁-C₄alkoxy,

R₁₁ is hydrogen, C₁-C₄alkoxy, phenoxy or the radical -O-C₆H₅-SO₂-NH-(CH₂)₃-O-C₂H₅,

R₁₂ is hydrogen, hydroxy or nitro and

R₁₃ is hydrogen, hydroxy or nitro,

wherein

R₁₄ is C₁-C₄alkyl unsubstituted or substituted by hydroxy or by phenyl or is phenyl,

R₁₅ is C₁-C₄alkyl,

R₁₆ is cyano,

 R_{17} is a radical of formula -(CH_2)₃-O-(CH_2)₂-O-C₆H₅, phenyl, or C₁-C₄alkyl substituted by hydroxy or by phenyl,

R₁₈ is halogen, nitro or cyano and

R₁₉ is hydrogen, halogen, nitro, trifluoromethyl or cyano,

$$R_{23} \longrightarrow N = N \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N = N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{21} \longrightarrow N \longrightarrow N$$

$$R_{22} \longrightarrow N \longrightarrow N$$

$$R_{23} \longrightarrow N \longrightarrow N$$

$$R_{24} \longrightarrow N \longrightarrow N$$

$$R_{25} \longrightarrow N$$

$$R$$

wherein

R₂₀ is C₁-C₄alkyl,

 R_{21} is C_1 - C_4 alkyl unsubstituted or substituted by C_1 - C_4 alkoxy and

 R_{22} is the radical -COOCH₂CH₂OC₆H₅ and R_{23} is hydrogen or

R₂₂ is hydrogen and R₂₃ is -N=N-C₆H₅,

$$A$$
 NO_2 $NO_$

wherein the rings A and B are unsubstituted or mono- or poly-substituted by halogen,

$$\begin{array}{c|c}
 & NH_2 \\
 & N-R_{24}
\end{array}$$
(6),

wherein

 R_{24} is C_1 - C_4 alkyl unsubstituted or substituted by hydroxy, C_1 - C_4 alkoxy, C_1 - C_4 alkoxy- C_1 - C_4 alkoxy, C_2 - C_4 alkoxy or by C_1 - C_4 alkoxycarbonyl,

$$\begin{array}{c} \text{NC} \\ \text{C=CH} \\ \text{CH}_3 \\ \text{CH}_2 \text{CH}_2 \text{OCONH} \end{array}$$
 (7),

$$R_{\overline{27}} \xrightarrow{R_{28}} N = N \xrightarrow{R_{26}} CN$$

$$R_{28} HO R_{26}$$

$$(8),$$

wherein

R₂₅ is C₁-C₄alkyl,

R₂₆ is C₁-C₄alkyl unsubstituted or substituted by C₁-C₄alkoxy,

R₂₇ is hydrogen, C₁-C₄alkoxy or halogen and

R₂₈ is hydrogen, nitro, halogen or phenylsulfonyloxy,

$$R_{30}$$
 R_{31}
 R_{32}
 R_{34}
 R_{35}
 R_{36}
 R_{34}
 R_{35}
 R_{36}
 R_{36}
 R_{36}
 R_{31}
 R_{32}
 R_{32}
 R_{34}

wherein

R₂₉, R₃₀, R₃₁ and R₃₂ are each independently of the others hydrogen or halogen,

R₃₃ is hydrogen, halogen, C₁-C₄alkyl or C₁-C₄alkoxy,

R₃₄ is hydrogen, halogen or acylamino and

R₃₅ and R₃₆ are each independently of the other hydrogen, or C₁-C₄alkyl unsubstituted or substituted by hydroxy, cyano, acetoxy or by phenoxy,

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or the dye of formula

wherein

R₃₇ is hydrogen or halogen,

$$O = O$$

$$O =$$

wherein

 R_{38} is hydrogen, C_1 - C_4 alkyl, tetrahydrofuran-2-yl, or a C_1 - C_4 alkoxycarbonyl radical unsubstituted or substituted in the alkyl moiety by C_1 - C_4 alkoxy,

$$R_{\overline{39}} = R_{41}$$

$$0 \qquad SR_{42}$$

$$(12),$$

wherein

 R_{39} is hydrogen, or thiophenyl unsubstituted or substituted in the phenyl moiety by C_1 - C_4 alkyl or by C_4 - C_4 alkoxy,

 R_{40} is hydrogen, hydroxy, amino, or phenylcarbonylamino wherein the phenyl moiety is unsubstituted or substituted by C_1 - C_4 alkyl,

 R_{41} is hydrogen, halogen, cyano, or thiophenyl, phenoxy or phenyl each of which is unsubstituted or substituted in the phenyl moiety by C_1 - C_4 alkyl or by C_1 - C_4 alkoxy and

 R_{42} is phenyl unsubstituted or substituted in the phenyl moiety by halogen, C_1 - C_4 alkyl or by C_1 - C_4 alkoxy,

$$R_{43} = N_{45} = N_{45} = N_{47} = N_{48} = N_{49} = N$$

wherein

R₄₃ is hydrogen or C₁-C₄alkyl,

R₄₄ and R₄₅ are each independently of the other hydrogen, halogen, nitro or cyano,

R₄₆ is hydrogen, halogen, C₁-C₄alkyl or C₁-C₄alkoxy,

R₄₇ is hydrogen, halogen or C₂-C₄alkanoylamino and

 R_{48} and R_{49} are each independently of the other hydrogen, or C_1 - C_4 alkyl unsubstituted or substituted by hydroxy, cyano, C_1 - C_4 alkoxy, C_1 - C_4 alkoxy- C_1 - C_4 alkoxy, C_2 - C_4 alkoxy, C_1 - C_4 alkoxy-carbonyl, phenyl or by phenoxy, or

$$R_{52}$$
 R_{54}
 R_{53}
 R_{53}
 R_{53}
 R_{53}
 R_{54}
 R_{53}

wherein

R₅₀ is hydrogen or C₁-C₄alkyl,

 R_{51} is phenyl or phenylcarbonyl, in each of which the phenyl moiety may be substituted by C_1 - C_4 alkyl, R_{52} and R_{53} are each independently of the other hydrogen, C_1 - C_4 alkyl or C_1 - C_4 alkoxy and R_{54} is hydrogen or C_1 - C_4 alkyl.

- 3. (currently amended): A method according to either claim 1-or claim 2, wherein the aqueous composition additionally comprises a crosslinking agent.
- 4. (currently amended): A method according to any one of claims 1 to 3 claim 1, wherein the aqueous composition additionally comprises an agent imparting soft-handle properties.

- 5. (currently amended): A method according to any one of claims 1 to 4 claim 1, wherein the treatment of the fibre material with the aqueous composition is carried out as a pretreatment prior to the material being brought into contact with the disperse dye.
- 6. (original): A method according to claim 5, wherein the fibre material impregnated with the aqueous composition in a pretreatment step is dried and the applied polymer matrix is condensed.
- 7. (currently amended): A method according to any one of claims 1 to 6 claim 1, wherein, after the dyeing procedure, a further treatment of the fibre material with the aqueous composition is carried out.
- 8. (currently amended): A method according to any one of claims 1 to 7 claim 1, wherein the cellulose-containing fibre material is a fibre blend.
- 9. (currently amended): A method according to any one of claims 1 to 8 claim 1, wherein the cellulose-containing fibre material is a fibre blend consisting of cellulose and polyester.
- 10. (currently amended): A method according to any one of claims 1 to 9 claim 1, wherein the ratio by weight of polyester resin to acrylate binder in the composition is from 4:1 to 1:1.

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